OCR
RECOGNISING ACHIEVEMENT

DRAFT

The Design and Technology Innovator Suite consists of:

Control Systems
Food Technology
Graphics
Industrial Technology
Resistant Materials
Textile Technology

GCSE
DESIGN AND TECHNOLOGY
Innovator Suite

Following the inspirational approach to teaching and assessment first seen in OCR's GCSE Design and Technology: Product Design, the Innovator Suite offers outstanding opportunities to enthuse and engage your students. These specifications provide innovative and imaginative qualifications rewarding flair and imagination and reflecting the contemporary use of materials.

www.ocr.org.uk/innovatorsuite/newgcse

What's happening to GCSEs?

OCR is offering new GCSEs for first teaching in September 2009*.

We've taken this opportunity to improve the quality of our GCSEs for teachers and learners alike.

We've made improvements in three key areas: updated and relevant content, a focus on developing students' personal, learning and thinking skills, and flexible assessment, so teachers can choose the best learning approach for the job.

We want to make the introduction of these new GCSEs as easy for you to manage as possible.

The main changes are:
• Controlled assessment will be introduced for most subjects
• The opportunity will be taken to bring course content up to date
• Examinations should provide opportunity for extended writing and more varied question types
• All GCSEs will meet the requirements of the Disability Discrimination Act.

Our approach is to provide consistency across all our GCSEs by offering the flexibility that unitised qualifications bring, allowing teaching and assessment in either a linear or unitised fashion.

*Not all GCSEs are changing. There are a few exceptions: the new Science GCSE was introduced in 2006. New English, English Literature, ICT and Maths GCSEs will be offered for first teaching in 2010.

Improving GCSE Design and Technology: Innovator Suite with OCR

We've involved teachers throughout the development process, so the new specifications, support materials and schemes of work should be exactly what you need to teach OCR GCSE Design and Technology: Innovator Suite . To ensure accuracy in our content, we've also consulted subject associations, professional membership groups, subject societies and other subject experts.

Our GCSE Design and Techonology: Innovator Suite offers:
• The opportunity for candidates to recognise the contribution they can make to the environment through careful consideration and selection of sustainable resources
• Flexibility of assessment sessions to suit your centre and your students: all assessment units will be available in January and June; alternatively, centres can choose to assess in a linear fashion at the end of the course
• The opportunity for centres to consider co-teaching some units.

Making change easy

We'd like to make these changes as easy for you to manage as possible. To minimise disruption, we will:
• Guide you through the process of moving to OCR
• Bring you the latest information through our Focus on 14–19 magazine and our new website www.GCSEchanges.com
• Show you approved specifications one year ahead of first teaching, so you have plenty of preparation time
• Offer you a range of OCR support materials, including schemes of work and sample assessment materials, as we did with GCEs
• Make OCR's publisher partner resources – tailored to the new specifications – available from January 2009
• Endorse a variety of published resources, giving you a wider choice of quality support materials.

We're also running extra INSET and training courses across the UK, so now it's even easier to discover how OCR has developed its specifications.

Controlled assessment

While reviewing GCSEs, QCA looked into the coursework element of the current qualifications and decided to introduce controlled assessment as an alternative to coursework. This will address some of the issues raised in recent coursework reviews, such as plagiarism.

Controlled assessment has to be done in a supervised environment. However, if the task has a research element, the student may complete this without supervision.

The benefits of controlled assessment include:
• More straightforward marking – for most subjects, we provide worksheets for students to complete
• Improved reliability and validity
• Varying levels of control, to help you manage the assessments and your time more easily
• Greater confidence in authenticating students' work as their own
• Greater ease in fitting assessments into your normal teaching programmes.

For GCSE Design and Technology: Innovator Suite, controlled assessment means:
• Task setting - A number of controlled assessment tasks will be available from OCR for candidates to choose from.
• Task taking – OCR has provided clear guidance to centres within the specification regarding authenticity, feedback, time and collaboration control, and access to resources.
• Task marking – All controlled assessment units will be internally assessed and moderated by an external moderator. Centres can either send portfolio evidence for postal moderation, or save as digital evidence and upload it to OCR's Repository.

We will review our controlled assessment tasks every two years.

Flexible assessment

The assessment for the new OCR GCSEs is organised into units which can either all be taken at the end of the course in a linear fashion, or be used to complement a more unitised approach to teaching and learning. This gives you the flexibility to choose the assessment approach best suited to your centre and your students. A unitised structure gives you the flexibility to co-teach short and full courses.

We already offer assessments that are organised into units at A Level and for some existing GCSEs. For many subjects, assessments will be available twice a year. Flexible assessment means:

• You will have a choice of learning approaches – linear or unitised
• The assessment can be timed to match the point of learning within the course, making it easier for candidates to show what they know, understand and can do
• Students can re-sit a unit rather than repeat the entire assessment
• Some students are motivated by ongoing feedback and this helps them identify their learning needs
• A unitised approach makes it easier for students to stay on track with their studies and manage their time effectively
• The pressure of an 'all or nothing' assessment is removed
• Examination stress is reduced by permitting assessment over a longer period so that not all assessments are concentrated in a narrow window at the end of two years

• With a similar format to A Levels and Diplomas, GCSEs will help prepare students for the next phase of their education.

To ensure that the assessment supports the coherence of the GCSEs and there is no over-assessment, QCA has put two rules in place: 40% of the assessment must happen at the end of the course and only one re-sit of each assessment unit is allowed.

You may know 'unitised' as modular.

GCSE Design and Technology: Innovator Suite

Unit title and description	Assessment including duration	Weighting
Unit 1: Introduction to Designing and Making • Developing Research and Investigation skills • Developing drawing skills • Modelling • Evaluating process.	Controlled assessment 15 hours	30% full course 60% short course
Unit 2: Sustainable Design • Consideration of products • Consideration of the environment • Consideration of society and the economy.	Written examination 1 hour	20% full course 40% short course
Unit 3: Making Quality Products • Designing for a need • Working with tools and equipment • Evaluating the product.	Controlled assessment 15 hours	30% full course
Unit 4: Technical Aspects of Designing and Making • Working with tools and materials • Selecting processes • Designing for success.	Written examination 1 hour 15 minutes	20% full course

Short Courses

We also offer a short course in each of the GCSE Design and Technology: Innovator Suite material specifications, equivalent to half a GCSE. This offers several advantages:
• There are only two units to complete.
• Students who are interested in a particular subject, but don't have time to study a full course, have more learning options.
• Students can study a wider range of subjects.

• Timetabling for shorter courses can be easier for your centre.
• More able students can complement their studies by taking additional short courses.
• Short courses can be spread over one or two years.
• There is an opportunity to teach two GCSE short courses from the Innovator Suite covering two different material biases.

What changes, and what stays the same?

	What changes?	What stays the same?
Structure & content	• A unitised structure offering greater flexibility • Removal of the tier system • Emphasis on the environment and sustainability • Greater use of creativity • Now reflects the contemporary use of materials and ICT • Theme sheets will be provided for Units 1 and 3 • Opportunity to co-teach Unit 2.	• Based on similar content, familiar to all Design and Technology teachers.
Assessment	• January and June examination sessions available for all units • Internal assessments will take less time • Introduction of e-portfolios.	• Internal assessment weighting of 60%.

Assessment objectives

The assessment objectives are designed to reflect the non-statutory guidelines for Design and Technology: Innovator Suite.

Candidates are expected to demonstrate the following in the context of the content described:

AO1
• Recall, select and communicate their knowledge and understanding in design and technology, including its wider effects.

AO2
• Apply knowledge, understanding and skills in a variety of contexts and in designing and making products.

AO3
• Analyse and evaluate products, including their design and production.

Support for GCSE Design and Technology: Innovator Suite teachers

OCR offers a range of support materials, developed following extensive research and consultation with teachers. We've designed them to save you time when preparing for the new specifications and to support you while teaching them.

Our support materials and events include face-to-face training courses, schemes of work that you can customise, endorsed publisher partner resources, access to teacher and examiner networks (both online and offline), plus an extensive past-papers service.

OCR's online resources include:
• E-communities – online networks of subject specialists for sharing knowledge, views and ideas
• Interchange – a completely free and secure website that helps you carry out the administrative tasks associated with examinations quickly and easily
• Past examination papers
• Marking schemes
• Subject e-alerts – for teachers who register for updates.

We offer a wide range of training courses in the UK, so you have easy access to information about our new specifications – direct from the experts. See over for more details.

Training for OCR GCSE Design and Technology: Innovator Suite

Our Get Ready events offer a taste of the new specification. Dates are given below, and you can book your place now at www.GCSEchanges.com.

Later, we'll be running our Get Started events, which take you through the specification in more detail and help you work towards first teaching. They will take place during the spring and summer terms 2009.

Get Ready – introducing the new specification (first teaching from September 2009)*
This course is for all teachers – new and experienced – who are interested in finding out more about the new specification. It's open to you, even if you don't teach the current OCR specification.

It's a **FREE** half-day session, including refreshments, a light finger buffet and course materials, offering an overview of the new OCR specification in GCSE Design and Technology: Innovator Suite. Key features include:
• A look at the new structure, content and assessment methods
• A comparison between old and new specification content
• An introduction to the support and resources available from OCR
• A summary of the benefits of choosing the new OCR specification.

Date	Location	Course code	Specification
Wed 2 Jul 08 AM	London	ODTA101	All
Thurs 3 Jul 08 AM	Coventry	ODTA102	All
Mon 7 Jul 08 AM	Manchester	ODTA103	All
Wed 9 Jul 08 AM	Newcastle	ODTA104	All
Tues 4 Nov 08 AM	London	ODTA105	Textiles
Tues 4 Nov 08 PM	London	ODTA106	Food
Thurs 6 Nov 08 AM	London	ODTA107	Resistant Materials
Thurs 6 Nov 08 PM	London	ODTA108	Graphics
Thurs 13 Nov 08 AM	Newcastle	ODTA109	Resistant Materials
Thurs 13 Nov 08 PM	Newcastle	ODTA110	Graphics
Wed 19 Nov 08 AM	Birmingham	ODTA111	Textiles
Wed 19 Nov 08 PM	Birmingham	ODTA112	Food
Tues 25 Nov 08 AM	Birmingham	ODTA113	Electronic Products
Tues 25 Nov 08 PM	Birmingham	ODTA114	Industrial Technology
Thurs 27 Nov 08 AM	Manchester	ODTA115	Graphics
Thurs 27 Nov 08 PM	Manchester	ODTA116	Textiles
Tues 2 Dec 08 AM	Nottingham	ODTA117	Electronic Products
Tues 2 Dec 08 PM	Nottingham	ODTA118	Resistant Materials
Fri 5 Dec 08 AM	Bristol	ODTA119	Food
Fri 5 Dec 08 PM	Bristol	ODTA120	Textiles
Tues 9 Dec 08 AM	Southampton	ODTA121	Graphics
Tues 9 Dec 08 PM	Southampton	ODTA122	Resistant Materials
Thurs 11 Dec 08 AM	London	ODTA123	Food
Thurs 11 Dec 08 PM	London	ODTA124	Electronic Products
Thurs 5 Feb 09 AM	London	ODTA125	All
Thurs 5 Feb 09 PM	London	ODTA126	All
Tues 10 Mar 09 AM	Birmingham	ODTA127	All
Tues 10 Mar 09 Pm	Birmingham	ODTA128	All

Please note:
• Free OCR Training courses will not incur any penalty fees however, so that we can offer your place to another delegate please notify us in good time of your course cancellation.
• Dates are subject to change so please ensure you read your booking confirmation and web updates as OCR Training cannot be held responsible for delegates who attend on an incorrect date.
• Courses throughout summer 2008 and autumn 2008 terms may be based on the draft specification.
• *The times of these courses may vary from the standard advertised time.
• Delegates may attend an AM only session, PM only session or both AM and PM sessions, where two different specifications are being covered on the same day.
• On your booking form, you must put course codes for all sessions you wish to attend, failure to do so may result in you being booked onto incorrect sessions.

Publishing support for GCSE Design and Technology: Innovator Suite teachers

We're working with publisher partner Hodder Education to provide further resources to support teachers of the new specification.

Hodder Education will be publishing separate student and teacher resources for each of the Innovator Suite specifications. All material is being written by senior examiners and experienced teachers, ensuring the very highest levels of support for the new specifications.

OCR RECOGNISING ACHIEVEMENT **HODDER EDUCATION**
Official Publisher Partnership

To find the latest information on published resources, please visit www.ocr.org.uk/innovatorsuite/newgcse and choose published resources from the right-hand menu.

www.ocr.org.uk

OCR customer contact centre

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